

RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF

SSSSSSSS	TTTTTTTT	DDDDDDDD	
SSSSSSSS	TTTTTTTT	DDDDDDDD	
SS	TT	DD	DD
SS	TT	DD	DD
SS	TT	DD	DD
SS	TT	DD	DD
SSSSSS	TT	DD	DD
SSSSSS	TT	DD	DD
	TT	DD	DD
	TT	DD	DD
	TT	DD	DD
	TT	DD	DD
SSSSSSSS	TT	DDDDDDDD
SSSSSSSS	TT	DDDDDDDD

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS


```
0001 0 %TITLE 'Processes .STANDARD command'
0002 0 MODULE STD (IDENT = 'V04-000'
P 0003 0 %BLISS32[,ADDRESSING_MODE ( EXTERNAL      = LONG_RELATIVE,
0004 0                                NONEXTERNAL    = LONG_RELATIVE)]
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 *****
0009 1 *
0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0011 1 *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0012 1 *  ALL RIGHTS RESERVED.
0013 1 *
0014 1 *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0015 1 *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0016 1 *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0017 1 *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0018 1 *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0019 1 *  TRANSFERRED.
0020 1 *
0021 1 *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0022 1 *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0023 1 *  CORPORATION.
0024 1 *
0025 1 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0026 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1 ++
0032 1 FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
0033 1
0034 1 ABSTRACT: Processes the .STANDARD command
0035 1
0036 1 ENVIRONMENT: Transportable
0037 1
0038 1 AUTHOR: R.W.Friday      CREATION DATE: August, 1978
0039 1
```

STD
V04-000

Processes STANDARD command
Revision History

F 8
16-Sep-1984 01:49:18
14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]STD.BLI;1 Page 2
(2)

```

: 41      0040 1 %SBTTL 'Revision History'
: 42      0041 1
: 43      0042 1   MODIFIED BY:
: 44      0043 1
: 45      0044 1       005      KFA00005      Ken Alden      5-Jul-1983
: 46      0045 1       Fixed sca_justify so it works correctly with gca_autojust.
: 47      0046 1
: 48      0047 1       004      KFA00004      Ken Alden      28-Mar-1983
: 49      0048 1       In SDXY the right margin is no longer reset(to gca_lwidth).
: 50      0049 1
: 51      0050 1       003      REM00003      Ray Marshall   07-Mar-1983
: 52      0051 1       Global edit of all modules. Updated module names, idents,
: 53      0052 1       copyright dates. Changed require files to BLISS library.
: 54      0053 1
: 55      0054 1  --
```


STD
V04-000

Processes .STANDARD command
Module Level Declarations

G 8
16-Sep-1984 01:49:18
14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]STD.BLI;1 Page 3
(3)

```

: 57      0055 1 %SBTTL 'Module Level Declarations'
: 58      0056 1
: 59      0057 1 :   TABLE OF CONTENTS:
: 60      0058 1 :
: 61      0059 1
: 62      0060 1 FORWARD ROUTINE
: 63      0061 1     SDXY : NOVALUE;
: 64      0062 1
: 65      0063 1 :
: 66      0064 1 :   INCLUDE FILES:
: 67      0065 1 :
: 68      0066 1
: 69      0067 1 LIBRARY 'NXPORT:XPORT';           ! XPORT Library
: 70      0068 1 REQUIRE 'REQ:RNODEF';           ! RUNOFF variant definitions
: 71      0199 1
: 72      U 0200 1 %IF DSRPLUS %THEN
: 73      U 0201 1 LIBRARY 'REQ:DPLLIB';           ! DSRPLUS BLISS Library
: 74      0202 1 %ELSE
: 75      0203 1 LIBRARY 'REQ:DSRLIB';           ! DSR BLISS Library
: 76      0204 1 %FI
: 77      0205 1
: 78      0206 1 :
: 79      0207 1 :   MACROS:
: 80      0208 1 :
: 81      0209 1 :
: 82      0210 1 :   EQUATED SYMBOLS:
: 83      0211 1 :
: 84      0212 1 :
: 85      0213 1 :   OWN STORAGE:
: 86      0214 1 :
: 87      0215 1 :
: 88      0216 1 :   EXTERNAL REFERENCES:
: 89      0217 1 :
: 90      0218 1
: 91      0219 1 EXTERNAL
: 92      0220 1     GCA : GCA_DEFINITION,
: 93      0221 1     IRA : FIXED_STRING,
: 94      0222 1     NUMPRM : NUMPRM_DEFINE,
: 95      0223 1     PDT : REF PDT_DEFINITION,
: 96      0224 1     PHAN : PHAN_DEFINITION,
: 97      0225 1     SCA : SCA_DEFINITION;
: 98      0226 1
: 99      0227 1 EXTERNAL LITERAL                 !Error messages
100      0228 1     RNFINM;
101      0229 1
102      0230 1 EXTERNAL ROUTINE
103      0231 1     ERMA,
104      0232 1     REMNEG,
105      0233 1     REMMRG,
106      0234 1     SETCAS,
107      0235 1     TSTBLK;
: 108     0236 1
```

STH
V04

: R

:

:

:

:

STD
V04-000

Processes .STANDARD command
STD --

H 8
16-Sep-1984 01:49:18
14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]STD.BLI;1 Page 4
(4)

```
110 0237 1 %SBTTL 'STD --'
111 0238 1 GLOBAL ROUTINE std (handler_code) : NOVALUE =
112 0239 1
113 0240 1 !++
114 0241 1 FUNCTIONAL DESCRIPTION:
115 0242 1
116 0243 1 See the ABSTRACT, above.
117 0244 1
118 0245 1 FORMAL PARAMETERS:
119 0246 1
120 0247 1 HANDLER_CODE is passed for conformance only.
121 0248 1
122 0249 1 IMPLICIT INPUTS:
123 0250 1
124 0251 1 NUMPRM contains a number as processed by GETNUM.
125 0252 1
126 0253 1 IMPLICIT OUTPUTS: None
127 0254 1
128 0255 1 ROUTINE VALUE:
129 0256 1 COMPLETION CODES: None
130 0257 1
131 0258 1 SIDE EFFECTS: None
132 0259 1
133 0260 1 --
134 0261 1
135 0262 2 BEGIN
136 0263 2
137 0264 2 tstblk (0); !Force .LISTs and .NOTEs to end, and
138 0265 2 !issue error messages if applicable.
139 0266 2 remmrg (); !Report unreported bad margins.
140 0267 2 remneg (); !Report unreported bad backdents.
141 0268 2
142 0269 2 IF NOT .num_result THEN ! If no argument given by user,
143 0270 2 num_value = .gca_lwidth ! use current page width.
144 0271 2
145 0272 2 ELSE ! Otherwise:
146 0273 2 BEGIN
147 0274 2 IF .num_sign NEQ 0 THEN ! If a signed number, Try adjusting
148 0275 2 num_value = .num_value + .gca_lwidth ! current page width.
149 0276 2 ELSE
150 0277 2 IF .num_length EQL 0 THEN ! Otherwise, if user said nothing,
151 0278 2 num_value = .gca_lwidth; ! ! use current page width
152 0279 2 IF .num_value LEQ 0 THEN ! If negative number,
153 0280 2 BEGIN
154 0281 2 erma (rnfinm, false); ! report error and
155 0282 2 num_value = .gca_lwidth; ! retain current line width.
156 0283 2 END;
157 0284 2 END;
158 0285 2
159 0286 2 gca_lwidth = .num_value;
160 0287 2
161 0288 2 !Set lines per page based on page width.
162 0289 2
163 0290 2 IF .gca_lwidth EQL 60 THEN
164 0291 2 phan_llines = 58
165 0292 2 ELSE
166 0293 2
```


STD
V04-000

Processes .STANDARD command
STD --

1 8
16-Sep-1984 01:49:18
14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]STD.BLI;1 Page 5
(4)

**F

```

: 167      0294 2      IF .gca_lwidth EQL 70
: 168      0295      THEN
: 169      0296      phan_llines = 74;
: 170      0297
: 171      0298      !Check for top of page condition so that footnotes
: 172      0299      !get taken care of ok.
: 173      0300
: 174      0301      IF .phan_lines_tp GEQ .phan_llines THEN
: 175      0302      phan_top_page = true;
: 176      0303
: 177      0304      pdt_indent = 0;
: 178      0305      sdxy ();
: 179      0306      END;
```

!Finish resetting.
!End of STD

.TITLE STD Processes .STANDARD command
.IDENT \V04-000\

.EXTRN GCA, IRA, NUMPRM
.EXTRN PDT, PHAN, SCA, RNFINM
.EXTRN ERMA, REMNEG, REMMRG
.EXTRN SETCAS, TSTBLK

.PSECT \$CODE\$,NOWRT,2

			001C 00000	.ENTRY	STD, Save R2,R3,R4		0238
	54	00000000G	EF 9E 00002	MOVAB	PHAN+4, R4		
	53	00000000G	EF 9E 00009	MOVAB	GCA+140, R3		
	52	00000000G	EF 9E 00010	MOVAB	NUMPRM+4, R2		
			7E D4 00017	CLRL	-(SP)		0264
00000000G	EF		01 FB 00019	CALLS	#1, TSTBLK		
00000000G	EF		00 FB 00020	CALLS	#0, REMMRG		0266
00000000G	EF		00 FB 00027	CALLS	#0, REMNEG		0267
	27	FC	A2 E9 0002E	BLBC	NUMPRM, 3\$		0269
		04	A2 D5 00032	TSTL	NUMPRM+8		0274
			06 13 00035	BEQL	1\$		
	62	00	B3 C0 00037	ADDL2	@GCA+140, NUMPRM+4		0275
			09 11 00038	BRB	2\$		
		08	A2 D5 0003D 1\$:	TSTL	NUMPRM+12		0277
			04 12 00040	BNEQ	2\$		
	62	00	B3 D0 00042	MOVL	@GCA+140, NUMPRM+4		0278
			62 D5 00046 2\$:	TSTL	NUMPRM+4		0279
			13 14 00048	BGTR	4\$		
			7E D4 0004A	CLRL	-(SP)		0281
		00000000G	8F DD 0004C	PUSHL	#RNFINM		
00000000G	EF		02 FB 00052	CALLS	#2, ERMA		
	62	00	B3 D0 00059 3\$:	MOVL	@GCA+140, NUMPRM+4		0282
00	B3		62 D0 0005D 4\$:	MOVL	NUMPRM+4, @GCA+140		0286
	3C	00	B3 D1 00061	CMPL	@GCA+140, #60		0290
			06 12 00065	BNEQ	5\$		
00	B4		3A D0 00067	MOVL	#58, @PHAN+4		0291
			0F 11 00068	BRB	6\$		
00000046	8F	00	B3 D1 0006D 5\$:	CMPL	@GCA+140, #70		0294
			05 12 00075	BNEQ	6\$		
00	B4	4A	8F 9A 00077	MOVZBL	#74, @PHAN+4		0296
00	B4	08	A4 D1 0007C 6\$:	CMPL	PHAN+12, @PHAN+4		0301
			04 19 00081	BLSS	7\$		

STD
V04-000

Processes .STANDARD command
STD --

J 8
16-Sep-1984 01:49:18
14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]STD.BLI;1

Page 6
(4)

FC A4 00000000G 01 D0 00083
00000000V EF 00 FF D4 00087 7\$:
00 FB 0008D
04 00094

MOVL #1, PHAN
CLRL @PDT
CALLS #0, SDXY
RET

: 0302
: 0304
: 0305
: 0306

; Routine Size: 149 bytes, Routine Base: \$CODE\$ + 0000

; 180 0307 1

STD
V04-000

Processes .STANDARD command
SDXY --

K 8
16-Sep-1984 01:49:18
14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]STD.BLI;1 Page 7
(5)

STK
V04

```
: 182 0308 1 %SBTTL 'SDXY --'
: 183 0309 1 GLOBAL ROUTINE sdxy : NOVALUE =
: 184 0310 1
: 185 0311 1 ++
: 186 0312 1 FUNCTIONAL DESCRIPTION:
: 187 0313 1
: 188 0314 1 Part of .STANDARD command common to .CHAPTER and .APPENDIX
: 189 0315 1
: 190 0316 1 FORMAL PARAMETERS: None
: 191 0317 1
: 192 0318 1 IMPLICIT INPUTS: None
: 193 0319 1
: 194 0320 1 IMPLICIT OUTPUTS: None
: 195 0321 1
: 196 0322 1 ROUTINE VALUE:
: 197 0323 1 COMPLETION CODES: None
: 198 0324 1
: 199 0325 1 SIDE EFFECTS: None
: 200 0326 1
: 201 0327 1 --
: 202 0328 1
: 203 0329 2 BEGIN
: 204 0330 2 phan_paging = .phan_cmd_paging; !Turn on paging if not /NOPAGING
: 205 0331 2 sca_fill = true;
: 206 0332 2 sca_justify = .gca_autojust or .sca_justify; !Turn on justification if the user didn't
: 207 0333 2 sca_crock = .gca_autojust; !say .NO AUTOJUSTIFY.
: 208 0334 2 sca_spacing = 1;
: 209 0335 2 sca_lm = 0;
: 210 0336 2
: 211 0337 2 setcas (.gca_case); ! Set case rules.
: 212 0338 2
: 213 0339 1 END; !End of SDXY
```

```
000C 00000
53 00000000G EF 9E 00002
52 00000000G EF 9E 00009
00000000G FF 00000000G EF D0 00010
00 B2 00 01 D0 0001B
FC B2 00 B3 C8 0001F
08 B2 00 B3 D0 00024
14 B2 01 D0 00029
0C B2 D4 0002D
70 B3 DD 00030
00000000G EF 01 FB 00033
04 0003A
```

```
.ENTRY SDXY, Save R2,R3 : 0309
MOVAB GCA+16, R3
MOVAB SCA+104, R2
MOVL PHAN+44, @PHAN+40 : 0330
MOVL #1, @SCA+104 : 0331
BISL2 @GCA+16, @SCA+100 : 0332
MOVL @GCA+16, @SCA+112 : 0333
MOVL #1, @SCA+124 : 0334
CLRL @SCA+116 : 0335
PUSHL @GCA+128 : 0337
CALLS #1, SETCAS
RET : 0339
```

; Routine Size: 59 bytes, Routine Base: \$CODE\$ + 0095

```
: 214 0340 1
: 215 0341 1 END !End of module
: 216 0342 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	208	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	29	2	86	00:00.3

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS\$:STD/OBJ=OBJ\$:STD MSRC\$:STD/UPDATE=(ENH\$:STD)

; Size: 208 code + 0 data bytes
; Run Time: 00:05.1
; Elapsed Time: 00:16.5
; Lines/CPU Min: 4007
; Lexemes/CPU-Min: 18691
; Memory Used: 48 pages
; Compilation Complete

0349

AH-BT13A-SE
 VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY